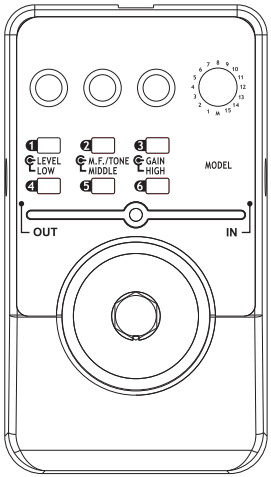
DIGITAL MODELING DISTORTION EFFECTS PEDAL



Owner's Manual

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INFORMATION FOR YOUR SAFETY!

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING.
Please keep this manual in a safe place for future reference.

Power Supply
Please connect the designated AC adaptor to an AC outlet of the correct voltage.
Do not connect it to an AC outlet of voltage other than that for which your instrument is intended.
Unplug the AC power adaptor when not using the instrument, or during electrical storms.

Connections
Before connecting the instrument to other devices, turn off the power to all units. This will help prevent malfunction and / or damage to other devices.

Location
Do not expose the instrument to the following conditions to avoid deformation, discoloration, or more serious damage:

- Direct sunlight
- Extreme temperature or humidity
- Excessive dusty or dirty location
- Strong vibrations or shocks
- Close to magnetic fields

Interference with other electrical devices
Radios and televisions placed nearby may experience reception interference. Operate this unit at a suitable distance from radios and televisions.

Cleaning
Clean only with a soft, dry cloth.
Do not use paint thinners, solvents, cleaning fluids, or chemical-impregnated wiping cloths.

Handling
Do not apply excessive force to the switches or controls.
Do not let paper, metallic, or other objects into the instrument. If this happens, unplug the AC adaptor from the wall outlet. Then have the instrument inspected by qualified service personnel.
Disconnect all cables before moving the instrument.

CAUTION
The normal function of the product may be disturbed by Strong Electro Magnetic Interference. If so, simply reset the product to resume normal operation by following the owner's manual. In case the function could not resume, please use the product in other location.

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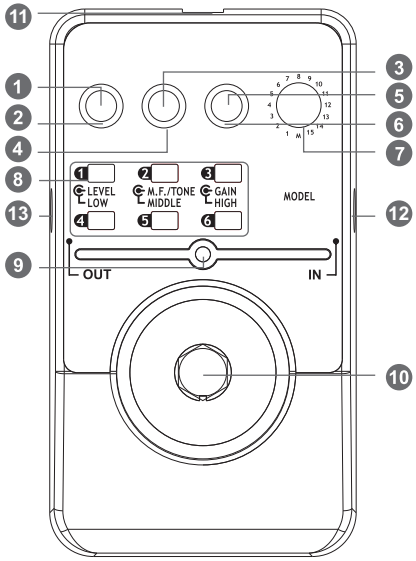
Panel Description



Front Panel

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1.LEVEL Knob
Controls the output LEVEL of the effect.

2.LOW Knob
Manipulate the LOW tone.

3.M.F/TONE Knob
If the current distortion model has M.F. (Middle Frequency) or Tone modulation, the LED of M.F./TONE will be lighted up accordingly.

4.MIDDLE Knob
Manipulate the MIDDLE tone.

5.GAIN Knob
Turn this knob clockwise to adjust the GAIN.

6.HIGH Knob
Manipulate the HIGH tone.

7.MODE Knob
Select one distortion model among the 15 models, or to select the patch memory function.

8.PATCH MEMORY Buttons
Press any of the PATCH MEMORY buttons to store your favorite tones to one of the six patch memory buttons (When the “MODEL” knob on the M position is selected).

9.ON/OFF LED
Indicates the on/off status of the unit.

10.FOOT SWITCH
Press the switch to turn effects on and off or for patch memory selection.

11.POWER Jack
Plug OPTIONAL 9V power adaptor into this jack.

12.INPUT Jack
Connect your guitar to this jack.

13.OUTPUT Jack
Connect this output jack to your guitar amplifier.

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Setup

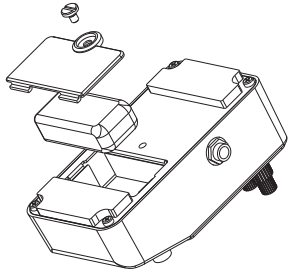
Battery Replacement Diagram

Warning:

1. A 9V battery (optional) must be installed before you plug the mono audio cable into the input jack.

2. While the power supply is low, the ON/OFF LED will extinguish. Please replace the battery accordingly.

3. Turn the guitar amplifier off before plugging and unplugging cables, otherwise tremendous noise might be produced and the unit might be damaged as well.



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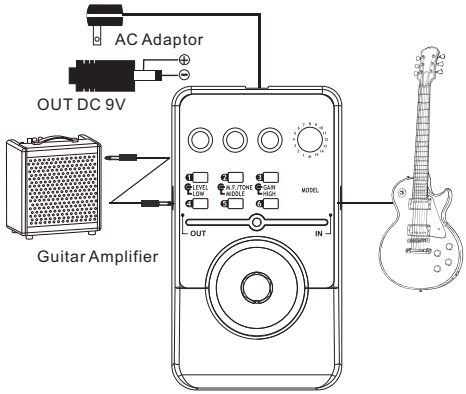
Connection

1. Connect the optional power supply to the power jack or insert a 9V battery (optional) into the battery compartment on the bottom.

2. Connect your guitar to input jack and an amplifier to output jack of the Pedal.

3. The Pedal will automatically switch on after a cable is plugged into its input jack when using a battery.

Use only the appropriate adaptor with the correct voltage and with a center NEGATIVE polarity. Some adaptors are made with a different polarity or voltage, which may damage the unit if it has been falsely used in connection.



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Effects Introduction

This digital distortion pedal, contains 15 distortion models based on 15 popular distortion pedals. It also includes the storage function, allows you to store and recall up to 6 patch memories.

Effects List

MODEL No.	CATEGORY	BRAND	DISTORTION MODEL
1	OverDrive	Ibanez®	TUBE SCREAMER® Overdrive Pro TS808 *
2		BOSS®	SD-1 SUPER Over Drive *
3		BOSS®	OD-1 Over Drive *
4		Fulltone®	OCD® Obsessive Compulsive Drive™ *
5	Distortion	MXR®	M-104 distortion+ *
6		BOSS®	DS-1 Distortion *
7		Marshall®	The Guv'nor *
8		Marshall®	SHRED MASTER *
9	Fuzz	DUNLOP®	FUZZFACE™ *
10		Electro-Harmonix®	BIG MUFF π™ *
11	Rat	Pro Co™	The Rat™ *
12	Grunge	DOD®	FX69 GRUNGE® *
13	Metal	Ibanez®	SM7 SMASH BOX® *
14		BOSS®	MT-2 Metal Zone® *
15		DOD®	FX86 DEATH METAL™ DISTORTION *

* These product names used in this document are trademarks of their respective companies. They are trademarks of other manufacturers and were used merely to identify whose sounds were reviewed in the creation of this product.

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01. Ibanez® TUBE SCREAMER® Overdrive Pro TS808 *

This model is based on IBANEZ® TS808 TUBE SCREAMER®. TS808 is famous for delivering a warm, natural tube overdrive sound. Also it is a way to boost your signal without adding a lot of distortion.

KNOBS	TS808'S KNOBS
GAIN	OVERDRIVE
M.F./TONE	TONE
LEVEL	LEVEL

02. BOSS® SD-1 SUPER Over Drive *

This model is based on BOSS® SD-1 SUPER OverDrive. Many famous guitarists use SD-1 as an overdrive pedal or a booster, it provides a harmonical drive sound, and especially suits a humbucker pickup.

KNOBS	SD-1'S KNOBS
GAIN	DRIVE
M.F./TONE	TONE
LEVEL	LEVEL

03. BOSS® OD-1 Over Drive *

This model is based on BOSS® OD-1 Over Drive, a legendary pedal discontinued in 1985. It has a very pure and vintage overdrive sound that a great many guitar players thirst for.

KNOBS	OD-1'S KNOBS
GAIN	OVER DRIVE
LEVEL	LEVEL

04. Fulltone® OCD® Obsessive Compulsive Drive™ *

This model is based on Fulltone® OCD Obsessive Compulsive Drive™. This pedal can keep all the touch sensitivity and complex harmonics, bring out a full natural drive sound.

KNOBS	OCD'S KNOBS
GAIN	DRIVE
M.F./TONE	TONE
MIDDLE	HP / LP *
LEVEL	VOLUME

100
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25
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* There are two modes for selection under this model. Turn the MIDDLE knob less than a '12 O'clock position', the LED indicator will not be lighted; the current selection will be the “HP” mode. Turn the MIDDLE knob to a position exceeds '12 O'clock', and the LED lights, creates the “LP” mode.

05. MXR® M-104 distortion+ *

This model is based on MXR® M104 distortion+, the classic distortion tone which sounds very vintage.

KNOBS	M-104’S KNOBS
GAIN	DISTORTION
LEVEL	OUTPUT

06. BOSS® DS-1 Distortion *

This model is based on BOSS® DS-1, the best-selling distortion pedal of BOSS®.

KNOBS	DS-1’S KNOBS
GAIN	DIST
M.F./TONE	TONE
LEVEL	LEVEL

07. Marshall® The Guv'nor *

This model is based on Marshall® GUV'NOR, the most famous pedal made by Marshall, creates a most pure-blood British sound absolutely worthy of its Marshall heritage.

KNOBS	GUV’NOR’S KNOBS
GAIN	GAIN
LOW	BASS
MIDDLE	MIDDLE
HIGH	TREBLE
LEVEL	LEVEL

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08. Marshall® SHRED MASTER *
This model is based on Marshall® SHRED MASTER, another famous pedal produced by Marshall.

KNOBS	SHRED MARSTER'S KNOBS
GAIN	GAIN
LOW	BASS
MIDDLE	CONTOUR
HIGH	TREBLE
LEVEL	LEVEL

09. DUNLOP® FUZZFACE™ *
This model is based on DUNLOP® FUZZFACE™ the classic sound of fuzz.

KNOBS	FUZZFACE'S KNOBS
GAIN	FUZZ
LEVEL	VOLUME

10. Electro-Harmonix® BIG MUFF π™ *
This model is based on ELECTRO-HARMONIX® BIG MUFF π™, warm and wild, provides abundant sustain of tone.

KNOBS	BIG MUFF π™'S KNOBS
GAIN	SUSTAIN
M.F./TONE	TONE
LEVEL	VOLUME

11. Pro Co™ The Rat™ *
This model is based on ProCo™ VINTAGE RAT™, a unique tone between Overdrive, Distortion, and Fuzz. It's one of the best drive pedal and provide a huge range of classic sound.

KNOBS	VINTAGE RAT™'S KNOBS
GAIN	DISTORTION
M.F./TONE	FILTER
LEVEL	VOLUME

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12. DOD® FX69 GRUNGE® *

This model is based on DOD® FX69 GRUNGE®. Although it's called GRUNGE®, the FX69 is more suitable for playing Heavy Metal. It gives a very sharp distortion sound.

KNOBS	FX69'S KNOBS
GAIN	GRUNGE
HIGH	FACE
LOW	BUTT
LEVEL	LOUD

13. Ibanez® SM7 SMASH BOX® *

This model is based on IBANEZ® SM7 SMASH BOX®, a real "smash box", providing "sharp" and "smooth" models.

KNOBS	SM7'S KNOBS
GAIN	DRIVE
HIGH	HI
LOW	LO
M.F./TONE	EDGE *
LEVEL	LEVEL

* There are two modes for selection under this model. Turn the M.F./TONE knob less than a '12 O'clock position', the LED indicator will not be lighted; the current selection will be the "SHARP" mode. Turn the M.F./TONE knob to a position exceeds '12 O'clock', and the LED lights, creates the "SMOOTH" mode.

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14. BOSS® MT-2 Metal Zone® *

This model is based on BOSS® MT-2 METAL ZONE®, classic heavy metal sound.

Knobs:

FD500'S KNOBS	MT-2'S KNOBS
GAIN	DIST
HIGH	HIGH
MIDDLE	MIDDLE
M.F./TONE	MID FREQ
LOW	LOW
LEVEL	LEVEL

15. DOD® FX86 DEATH METAL™ DISTORTION *

This model is based on DOD® FX86 DEATH METAL™, the tone from hell, crazy and wild.

Knobs:

FD500'S KNOBS	FX86'S KNOBS
HIGH	SCREAM
MIDDLE	PAIN
LOW	GUTS
LEVEL	R.I.P.

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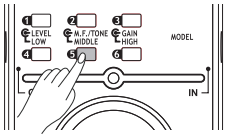
Store and Recall Patches

Warning:
To avoid the possibility of losing the stored patches or results in an unsuccessful storage, you are suggested to use an appropriate adaptor while performing the storage operation. Ensure the power will not be terminated.

Storing Your Favorite Tones
You can store your favorite tones into one of the 6 patches when the Pedal knob is turned to a position between MODEL 1~15 and the ON/OFF LED indicator is on at the same time.

For example, if you want to store the current setting to patch 5, you should press the 5th button (as show in the diagram) and hold for at least 0.5 second. The ON/OFF LED indicator has to be on at the same time. Then, all LED indicators of the Pedal will light up from 1 to 6 in a slow speed.



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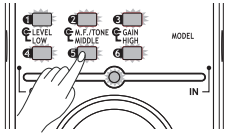
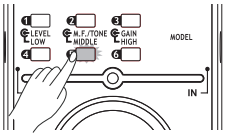
Press and hold the 5th button for another 2 seconds to enter the storage function; all LED indicators will flash from 1 to 6 in a fast speed.



You can then release the button. The LED indicator of this button will be lighted for the final one second, then the whole action will stop; your own setting has already been stored into the chosen patch.

Finally, it returns back to the normal mode automatically.



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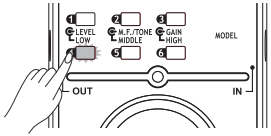
Store and Recall Patches

Recalling the Saved Memories
If you want to recall the patches that you have saved, you must turn the MODEL knob to the M position:

At this time, the LED indicator of the latest stored patch will be lighted automatically.
For example, if you want to recall patch 4, just press the 4th button:

When the MODEL knob points to the M position, you can adjust the LEVEL knob as usual; however, other knobs will be inactivated.



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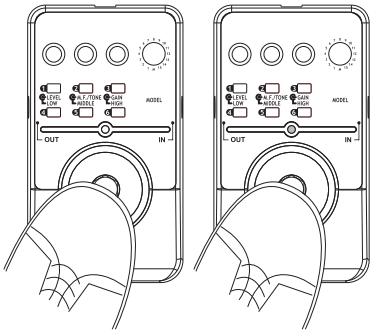
FOOT SWITCH Control Mode
When the MODEL knob points to the M position, the FOOT SWITCH will provide two function modes.
Before making connection or powers on FD500, turn the MODEL knob to the M position, then press and hold the FOOT SWITCH firmly; powers up the unit and keep holding the FOOT SWITCH until the ON/OFF LED indicator flashes three times.

The FOOT SWITCH control mode will now be changed from the status of “MODE.1” to “MODE.2”. You can hit the FOOT SWITCH to swap from one patch to another in sequence.

If you do not press and hold the FOOT SWITCH before FD500 powers on, the FOOT SWITCH control mode remains the MODE you set before.

Note:
You will not be able to manipulate patches and their settings under the FOOT SWITCH Control Mode.
The FOOT SWITCH control mode setting will be saved when power off.

MODE	FUNCTION
MODE 1	FOOT SWITCH for the bypass function as usual.
MODE 2	FOOT SWITCH swaps between the patch memories in the sequence of Button (Patch) 01→02→03→04→05→06



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Troubleshooting

Can't power on [On/Off LED doesn't light normally]

- Check the connection of power.
  Make sure the power is connected correctly.

- Check the adaptor, is the type of adaptor right (DC9V/300mA/center negative type)?
  Use right type of adaptor, or else it may cause damage to the equipment.

- If using battery, check the INPUT jack, is the cable connected properly to it?
  If using battery, check the battery, is the battery low or dead?
  When using battery, make sure the battery is at work and plug in the INPUT jack with audio cable.

No sound / low volume

- Check the connection of cables.
  Make sure the IN/OUT cables are connected correctly.

- Check the volume of instrument and amplifier.
  Make sure the volume of every equipment is set to a appropriate level.

- Check the LEVEL knob, do you set it to Min?
  Set the LEVEL to a higher value.

No/low effect sound

- Are you in Bypass status?
  Press the FOOT SWITCH to get in effect status.

- Check GAIN knob, do you set them to Min?
  Set the GAIN to a higher value.

- Are you in M MODE, and use a Memory Patch? Maybe when you saved this Patch, the GAIN knob was point to the lowest value, so there may be low wet sound.
  Restore this patch with setting the GAIN knob to a appropriate negative.

High level of noise

- Check the adaptor.
  Make sure the adaptor's type is correct (DC9V/300mA/center minus).

- Check the cables.
  Make sure the cables are connected firmly. Suggest using shielded cables.

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Specifications

No. of Distortion Models
15

No. of Patch Memories
6

Guitar Input
1/4" monaural jack

Input Impedance
1 M Ohms

Line Output
1/4" monaural jack

Output Impedance
100 Ohms

Power Requirements
Optional AC adaptor DC9V/300mA/center negative type or 6LR61 9V battery

Dimensions
126.5(L) x 79.5(W) x 64.5(H) mm

Weight
355g (without battery)

* All specifications and appearances are subject to change without notice.

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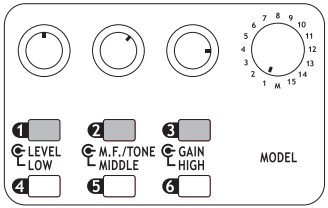
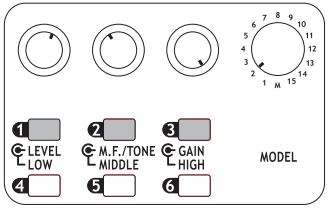
Setting Samples

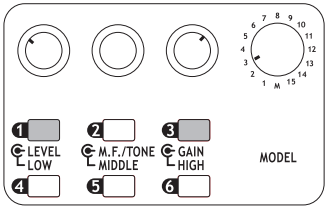
1. TS808：Texas Blues



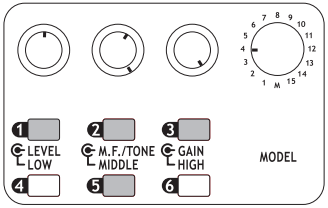
2. SD-1：Warm Drive



3. OD-1：Vintage Drive



4. OCD：Power Drive



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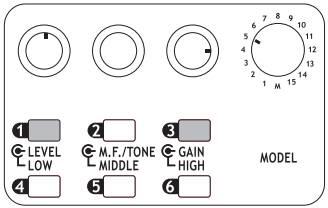
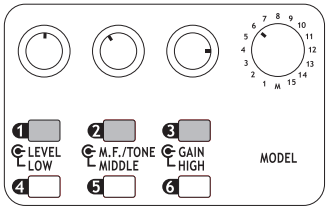
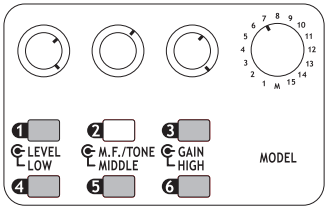
5. M-104：Randy Rhythm



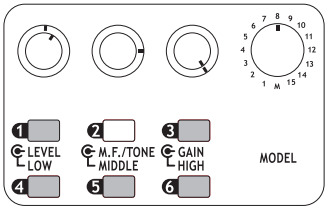
6. DS-1：Pop Dist



7. GUV'NOR：Plexi Tone



8. SHRED MASTER：Creeping Paranoia



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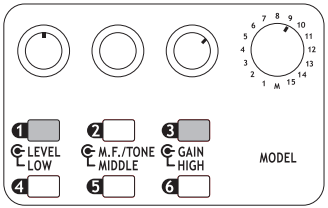
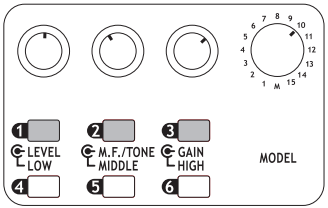
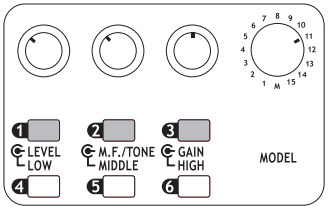
9.FUZZFACE：Voodoo Axe



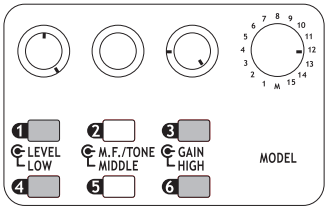
10. BIG MUFF：Fire Ball



11. VINTAGE RAT：Rock Legend



12. FX-69：Teen Smell



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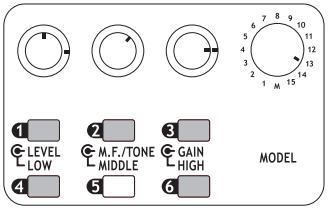
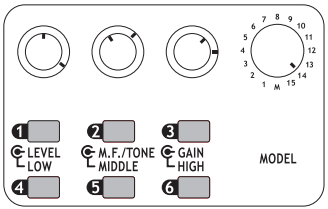
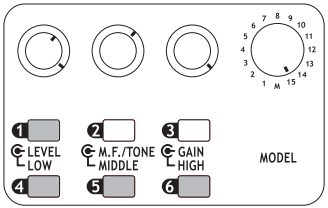
13. SM-7：Blind Eye



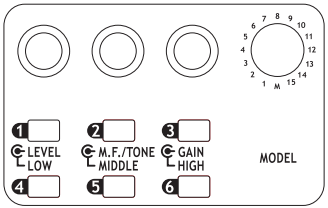
14. MT-2：Iron Zone



15. FX-86：Death Throne



16. User Setting



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FD500_G12

aw_FD500_Manual_G12_101021
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